=> file hcaplus
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Ross Slaipe 3/26/2007 10/541307

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FILE COVERS 1907 - 26 Mar 2007 VOL 146 ISS 14 FILE LAST UPDATED: 25 Mar 2007 (20070325/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.
'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

Inventor Search .

=> d que nos 152

L49
226 SEA FILE=HCAPLUS ABB=ON PLU=ON ACKERMANN J?/AU
L50
7 SEA FILE=HCAPLUS ABB=ON PLU=ON HILTNER H?/AU
L51
88 SEA FILE=HCAPLUS ABB=ON PLU=ON SIEGERT H?/AU
L52
2 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 AND L51

=> d ibib ed abs hitstr 152 1-2

L52 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:587918 HCAPLUS Full-text

DOCUMENT NUMBER:

141:124115

TITLE:

Transesterification procedure for the continuous production of alkyl (meth)acrylates from methyl (meth)acrylates with repeated catalyst recycling

INVENTOR(S):

Ackermann, Jochen; Hiltner, Horst; Siegert, Hermann

PATENT ASSIGNEE(S):

Roehm GmbH & Co. KG, Germany

SOURCE:

Ger. Offen., 16 pp.

DOCUMENT TYPE:

CODEN: GWXXBX Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10301007	A1 -	20040722	DE 2003-10301007	200301
CA 2512628	A1	20040729	CA 2003-2512628	13 200311
WO 2004063140	A1	20040729	WO 2003-EP13060	21 200311 21

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              CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI,
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              SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
              ZM, ZW
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              DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
              SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
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     AU 2003283419
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                                                  EP 2003-775379
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                                                                             200311
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     JP 2006513241
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                             A1
                                    20060921
                                                  US 2006-541307
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                                                  DE 2003-10301007
PRIORITY APPLN. INFO .:
                                                                             200301
                                                                             13
                                                  WO 2003-EP13060
                                                                             200311
                                                                             21
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OTHER SOURCE(S): MARPAT 141:124115

ED Entered STN: 23 Jul 2004

AB An procedure for the continuous production of alkyl (meth)acrylates (e.g., iso-Bu methacrylate) by the continuous catalytic transesterification of Me (meth)acrylates with high-boiling alcs. (e.g., isobutanol) is described. A very high space-time velocity and product yield can be achieved. This process enables the reuse of homogeneous transesterification catalyst several times and thus reduces the excipient costs; process flow diagrams are presented.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2003:532627 HCAPLUS Full-text

3

ACCESSION NUMBER: DOCUMENT NUMBER:

139:85788

TITLE:

Transesterification method for the continuous production of alkyl (meth)acrylates from

alcohols and methyl (meth)acrylates

INVENTOR(S): alcohols and methyl (meth)acrylate
Ackermann, Jochen; Gropp, Udo;

Hiltner, Horst; Lausch, Hans-Rolf; Lunt-Rieg, Ingrid; Siegert, Hermann;

Carloff, Ruediger

PATENT ASSIGNEE(S):

Roehm GmbH & Co. KG, Germany

SOURCE:

PCT Int. Appl., 28 pp.

DOCUMENT TYPE:

CODEN: PIXXD2
Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATE	ENT N	o. 			KINI) -	DATE		į	APPL	ICAT	ION I	NO.		1	DATE
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		CN, GH, LK,	CO, GM, LR,	CR, HR, LS,	CU, HU, LT,	CZ, ID, LU,		DM, IN, MA,	DZ, IS, MD,	EC, JP, MG,	EE, KE, MK,	ES, KG, MN,	FI, KP, MW,	GB, KR, MX,	CA GD KZ MZ	, NO,
	RW:	TR, GH, BY, EE, TR,	TT, GM, KG, ES, BF,	TZ, KE, KZ, FI,	UA, LS, MD, FR,	UG, MW, RU, GB,	US, MZ, TJ, GR,	UZ, SD, TM, IE,	VN, SL, AT, IT,	YU, SZ, BE, LU,	ZA, TZ, BG, MC,	ZM, UG, CH, NL,	ZW ZM, CY, PT,	ZW, CZ, SE,	AM DE SI	, AZ, , DK, , SK,
DE 1	10200	TD, 171	TG		A1		2003	0710		DE 2	002-	1020	0171			200201 04
AU 2	20023	6428	81		A1		2003	0715		AU 2	002-	3642	81		•	200212 06
EP 1	14658	59			A1		2004	1013		EP 2	002-	7990	53			200212 06
BR 2		PT,	IE,	SI,		LV,	ES, FI, 2004	RO,	MK,	CY,	AL,	TR,	ВG,			, MC, , SK
JP 2	20065	0379	95		Т		2006	0202		JP 2	003-	5563	72			200212 06
US 2	20051	1950	00		A1		2005	0602		us 2	004-	5002	88			200212 06
	69773						2005	1220								200406 29
PRIORITY			INFO		BZ		2003	1220		DE 2	002-	1020	0171			200201 04
										WO 2	002-	EP13	828			200212 06

OTHER SOURCE(S):

MARPAT 139:85788

ED Entered STN: 11 Jul 2003

AB A method for the continuous production of alkyl (meth)acrylates (e.g., Bu methacrylate) by the transesterification of Me (meth)acrylate with an alc. (e.g., 1-butanol) having a higher b.p. than methanol is described using azeotropic distillation for removal of the byproduct methanol and thin-film evaporation for recovery of the alkyl (meth)acrylate. A process flow diagram is presented.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg FILE 'REGISTRY' ENTERED AT 16:25:28 ON 26 MAR 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 25 MAR 2007 HIGHEST RN 928121-90-8 DICTIONARY FILE UPDATES: 25 MAR 2007 HIGHEST RN 928121-90-8

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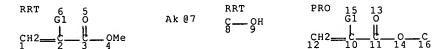
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> d stat que 14 L2



VAR G1=H/7

NODE ATTRIBUTES:

NSPEC IS RC Я AT NSPEC IS RC AΤ 16 CONNECT IS E1 RC AT

DEFAULT MLEVEL IS ATOM MLEVEL IS CLASS AT

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

****MAPPINGS***

	SYM	ROL	NOD	SYM	ROL
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98 SEA FILE=CASREACT SSS FUL L2 (391 REACTIONS) L4

98 DOCS 100.0% DONE 120660 VERIFIED 391 HIT RXNS (173 INCOMP)

SEARCH TIME: 00.00.25

=> file cas react

'CAS' IS AN AMBIGUOUS FILE OR CLUSTER NAME

- Linked CAS files (Predefined Search Sequences) CASLINK

- CAS Registry Numbers Cluster CASRNS

- The Chemical Abstracts File 1907-present CA

- The Chemical Abstracts Reaction Search Service CASREACT

ENTER FILE OR CLUSTER NAME (IGNORE):end

=> file casreact
FILE 'CASREACT' ENTERED AT 16:25:51 ON 26 MAR 2007
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FILE CONTENT: 1840 - 25 Mar 2007 VOL 146 ISS 13

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Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> d que nos 115
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L4
            21 SEA FILE=CASREACT ABB=ON PLU=ON L4/INC
L_5
            77 SEA FILE=CASREACT ABB=ON PLU=ON L4 NOT L5
L6
         276845 SEA FILE=REGISTRY ABB=ON PLU=ON TI/ELS
L7
           4401 SEA FILE=CASREACT ABB=ON PLU=ON L7/CAT
T8.
             4 SEA FILE=CASREACT ABB=ON PLU=ON L4 (L) L8
L12
             4 SEA FILE=CASREACT ABB=ON PLU=ON L12 AND L6
L15
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=> file hcaplus
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FILE COVERS 1907 - 26 Mar 2007 VOL 146 ISS 14 FILE LAST UPDATED: 25 Mar 2007 (20070325/ED)

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'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

Structure search

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T.16
L17
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                  SCR 2043
L20
L22
           48651 SEA FILE=REGISTRY SSS FUL L16 AND L17 NOT L20
          111119 SEA FILE=HCAPLUS ABB=ON PLU=ON L22
L23
          743109 SEA FILE=HCAPLUS ABB=ON PLU=ON L7
L24
          62899 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 (L) CAT/RL
29304 SEA FILE=HCAPLUS ABB=ON PLU=ON L23 (L) PREP/RL
303 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 AND L27
5 SEA FILE=HCAPLUS ABB=ON PLU=ON L28 AND RECYCL?/OBI
L26
L27
L28
L32
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L33
                  OBI (L) CONTINUOUS?/OBI
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L35
               1 SEA FILE=REGISTRY ABB=ON PLU=ON 96-33-3/RN
L36
L37
               2 SEA FILE=REGISTRY ABB=ON PLU=ON L35 OR L36
           36941 SEA FILE=HCAPLUS ABB=ON PLU=ON L37
L38
           18204 SEA FILE=HCAPLUS ABB=ON PLU=ON L38 (L) RACT/RL
L39
              54 SEA FILE=HCAPLUS ABB=ON PLU=ON L39 AND L28
L40
               3 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND RECYCL?/OBI
L41
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L42
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              38 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND POLYMER?/SC,SX 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND PLASTICS?/SC,SX
T.44
L45
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L47
                  L42 OR L44 OR L45
               43 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND (1840-2003)/PRY,
L48
                  PY, AY
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=> file casreact hcaplus FILE 'CASREACT' ENTERED AT 16:26:26 ON 26 MAR 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

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=> dup rem 115 148
PROCESSING COMPLETED FOR L15
PROCESSING COMPLETED FOR L48

46 DUP REM L15 L48 (1 DUPLICATE REMOVED)
ANSWERS '1-4' FROM FILE CASREACT
ANSWERS '5-46' FROM FILE HCAPLUS

=> d ibib abs ind fhit 1-4;d ibib ed abs ind hitstr 5-46

L54 ANSWER 1 OF 46 CASREACT COPYRIGHT 2007 ACS on STN DUPLICATE 1

ACCESSION NUMBER:

140:111418 CASREACT <u>Full-text</u> Preparation of ketalized glycerol

(meth)acrylates and glyceryl (meth)acrylate

INVENTOR(S):
PATENT ASSIGNEE(S):

Doi, Junichi; Masaki, Tomohiro Mitsubishi Rayon Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

SOURCE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

H2C O Me_U_U_OMe

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L1
L2
               STRUCTURE
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                                   2 REACTIONS)
L3
             98 SEA SSS FUL L2 (
                                  391 REACTIONS)
                SAV L4 CHO307/A
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L6
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L18
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L21
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         743109 SEA ABB=ON PLU=ON L7
          4204 SEA ABB=ON PLU=ON L23 AND L24
L25
          62899 SEA ABB=ON PLU=ON L24 (L) CAT/RL
L26
L27
          29304 SEA ABB=ON PLU=ON L23 (L) PREP/RL
            303 SEA ABB=ON PLU=ON L26 AND L27
158 SEA ABB=ON PLU=ON L28 AND POLYMER?/SC,SX
5 SEA ABB=ON PLU=ON L28 AND RECYCL?/OBI
L28
L29
L32
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                CONTINUOUS?/OBI
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              1 SEA ABB=ON PLU=ON 96-33-3/RN
L36
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L37
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L38
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          18204 SEA ABB=ON PLU=ON L38 (L) RACT/RL
L39
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L40
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L41
              2 SEA ABB=ON PLU=ON L40 AND TRANSESTERIFIC?/OBI (L)
L42
                CONTINUOUS?/OBI
L43
             9 SEA ABB=ON PLU=ON L32 OR L33 OR L41 OR L42
L44
            38 SEA ABB=ON PLU=ON L40 AND POLYMER?/SC, SX
L45
             8 SEA ABB=ON PLU=ON L40 AND PLASTICS?/SC,SX
             43 SEA ABB=ON PLU=ON L44 OR L45
L46
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L47	48	SEA ABB=ON	PLU=ON L32 OR L33 OR L41 OR L42 OR L44 OR
L48	43	SEA ABB=ON	PLU=ON L47 AND (1840-2003)/PRY, PY, AY
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L50	7 :	SEA ABB=ON	PLU=ON HILTNER H?/AU
L51	88	SEA ABB=ON	PLU=ON SIEGERT H?/AU
L52	2	SEA ABB=ON	PLU=ON L49 AND L50 AND L51
L53	42	SEA ABB=ON	PLU=ON L48 NOT L52

FILE 'HCAPLUS' ENTERED AT 16:24:04 ON 26 MAR 2007
D QUE NOS L52
D IBIB ED ABS HITSTR L52 1-2

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FILE 'CASREACT' ENTERED AT 16:25:51 ON 26 MAR 2007 D QUE NOS L15

FILE 'HCAPLUS' ENTERED AT 16:26:10 ON 26 MAR 2007 D QUE NOS L48

=>

FILE 'CASREACT, HCAPLUS' ENTERED AT 16:26:26 ON 26 MAR 2007
L54

46 DUP REM L15 L48 (1 DUPLICATE REMOVED)

ANSWERS '1-4' FROM FILE CASREACT

ANSWERS '5-46' FROM FILE HCAPLUS

D IBIB ABS IND FHIT 1-4

D IBIB ED ABS IND HITSTR 5-46

Page 127